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TITLE: PROJECTION TYPE PICTURE DISPLAY DEVICE  
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INVENTOR-INFORMATION:

NAME  
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ASSIGNEE-INFORMATION:

NAME	COUNTRY
FUJITSU GENERAL LTD	N/A

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ABSTRACT:

PURPOSE: To vary a white picture level corresponding to luminance by the surrounding light of a screen and to display pictures with contrast even when surroundings are bright.

CONSTITUTION: The light emission of a light source 1 is stopped, a photosensor 7 is projected in front of a liquid crystal panel 4, the reflected light (transmission light in a rear projection type) 8 of the surrounding light from the screen 6 is detected, turned to the signals of a luminance level in a luminance detection part 9 and inputted to an arithmetic part 11 and the white picture level corresponding to the luminance of the screen 6 is operated by an optimum white picture level computing formula from a storage part 10. The data are inputted to a discrimination part 13, a picture size

corresponding to the  
white picture level is discriminated by the data from a picture size  
storage  
part 12, the zooming mechanism of a projection lens 5 is driven by a  
zoom  
driving part 14 and a projection picture size is magnified/reduced.  
After  
detecting screen luminance, the photosensor 7 is retracted, the light  
reflected  
at a reflector 2 and the light source 1 is converged by a condensing  
lens 3,  
the liquid crystal panel 4 is irradiated and the generated pictures  
are  
projected to the screen 6 by the projection lens 5.

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